

# Guided drive DFM-25-100-P-A-GF

Part number: 170853

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                                          | Value                                                                                      |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Distance from centre of gravity of load to yoke plate xs         | 50 mm                                                                                      |
| Stroke                                                           | 100 mm                                                                                     |
| Piston diameter                                                  | 25 mm                                                                                      |
| Operating mode, drive unit                                       | Yoke                                                                                       |
| Cushioning                                                       | Elastic cushioning rings/plates at both ends                                               |
| Mounting position                                                | optional                                                                                   |
| Guide                                                            | Plain-bearing guide                                                                        |
| Design                                                           | Guidance                                                                                   |
| Position detection                                               | Via proximity switch                                                                       |
| Symbol                                                           | 00991737                                                                                   |
| Operating pressure                                               | 0.15 MPa ... 1 MPa                                                                         |
| Operating pressure                                               | 1.5 bar ... 10 bar                                                                         |
| Max. speed                                                       | 0.8 m/s                                                                                    |
| Mode of operation                                                | Double-acting                                                                              |
| Operating medium                                                 | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                               | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                                   | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                           | VDMA24364-B1/B2-L                                                                          |
| Cleanroom class                                                  | Class 6 according to ISO 14644-1                                                           |
| Ambient temperature                                              | -20 °C ... 80 °C                                                                           |
| Impact energy in end positions                                   | 0.3 J                                                                                      |
| Max. force Fy                                                    | 810.7 N                                                                                    |
| Max. force Fy static                                             | 810.7 N                                                                                    |
| Max. force Fz                                                    | 810.7 N                                                                                    |
| Max. force Fz static                                             | 810.7 N                                                                                    |
| Max. moment Mx                                                   | 27.56 Nm                                                                                   |
| Max. torque Mx static                                            | 27.56 Nm                                                                                   |
| Max. moment My                                                   | 19.46 Nm                                                                                   |
| Max. torque My static                                            | 19.46 Nm                                                                                   |
| Max. moment Mz                                                   | 19.46 Nm                                                                                   |
| Max. torque Mz static                                            | 19.46 Nm                                                                                   |
| Max. permissible torque load Mx as a function of stroke          | 3.64 Nm                                                                                    |
| Max. effective load dependent upon stroke at defined distance xs | 86 N                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 247 N                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 295 N                                                                                      |

| Feature                 | Value                      |
|-------------------------|----------------------------|
| Moving mass             | 979 g                      |
| Product weight          | 2225 g                     |
| alternative connections | See product drawing        |
| Pneumatic connection    | G1/8                       |
| Note on materials       | RoHS-compliant             |
| Material cover          | Wrought aluminium alloy    |
| Material seals          | NBR                        |
| Material housing        | Wrought aluminium alloy    |
| Material piston rod     | High-alloy stainless steel |